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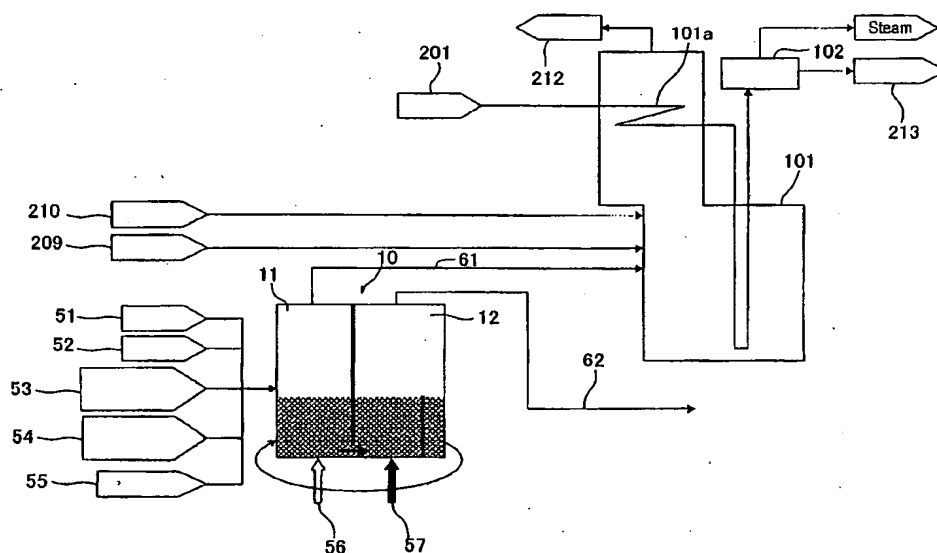
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- (54) Title: HYDROCARBON MATERIAL PROCESSING SYSTEM AND METHOD**



(57) Abstract: A hydrocarbon material processing system can reduce consumption of fossil fuel, environmental loads, and cost for processing a hydrocarbon material. The hydrocarbon material processing system has a gasification furnace (10) for pyrolyzing and gasifying wastes (51), waste plastics (52), pyrolysis tar (53), residual hydrocarbon heavy oil (54), and organic matter such as biomass (55) to produce a heat source gas. The hydrocarbon material processing system also has a cracking furnace (101) for thermally cracking a hydrocarbon material by using the heat source gas produced in the gasification furnace (10).

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